PRELIMINARY CHART
1989 EDITION

16305
LORAN-C OVERPRINTED

UNITED STATES
ALASKA - WEST COAST

BRISTOL BAY

CAPE NEWENHAM AND HAGEMEISTER STRAIT

Mercator Projection
Scale 1:100,000 at Lat. 58°40'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), and for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 2.825" southward and 7.861" westward to agree with this chart.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 9 for important supplemental information.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated)

AERO aeronautical
Al alternating
B black
Bn beacon
C can
DIA diaphone
E (or equal interval) (fac)
F fixed
Fl flashing
G green
Gp group
IQ interrupted quick
Iso isophase (E Int)
LT HO lighthouse
M nautical mile
m minutes
MICRO TR microwave tower
Mkr marker
Mo morse code
N nun
OBSC obscured
Oc occulting
Or orange
Q quick
R red
Ra Ref radar reflector
RW radiobeacon
R TR radio tower
Rot rotating
s seconds
SEC sector
St M statute miles
VQ very quick
W white
WHIS whistle
Y yellow

Bottom characteristics

Bldr boulders
Br broken
Cy clay
Co coral
G gravel
Grs grass
Gy gray
h hard
M mud
Oys oysters
Rk rock
S sand
sc soft
Sh shells
sy sticky

Miscellaneous

AUTH authorized
ED existence doubtful
Obstn obs obstrn
PA position approximate
PD position doubtful
Rep reported
Subm submerged

(2) Rocks that cover and uncover, with heights in feet above datum of soundings

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Charting and Geodetic Services with additional data from the Geological Survey and U.S. Coast Guard.

NOTE X

TERRITORIAL SEA AND CONTIGUOUS ZONE

The lines delimiting the territorial sea and contiguous zone represent an interdepartmental committee's interpretation of legal principles as applied to geographical information. The lines are subject to revision when required by correction of the geographic information shown or by reinterpretation of the legal principles involved. Where differences occur between adjacent or overlapping charts, the lines shown on the most recent chart issue take precedence.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

COLREGS 80.1705 (see note A)

International Regulations for Preventing Collisions at Sea, 1972.
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 9. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 17th Coast Guard District in Juneau, Alaska, or at the Office of the District Engineer, Corps of Engineers in Anchorage, Alaska.
Refer to charted regulation section numbers.

HYDROGRAPHY

The most recent basic hydrographic surveys used in the compilation of this chart were accomplished by the NOAA ships RAINIER, commanded by Capt. Carl W. Fisher.

KUSKOKWIM BAY

Salmon River

Kinegnak River

Chagvan Bay

mud and sand

mud and silt

LORAN LINEAR INTERPOLATOR

MICROSECONDS

SECURITY COVE

Depths in fathoms

CAPE NEWENHAM

Bird Rock

AERO R Bn
385

Parbolic Antenna

OSVIAK

Osviak River

Marsh

NUNIVAK ISLAND

NUNIVAK SPIT

Ukivok River

CAPE PEIRCE

A shoal with 2 to 9 fathoms depth is reported extending true west from Cape Peirce. Distance not given.

Kinak Island

BERING SEA

BRISTOL BAY

CAUTION:
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

NOAA nautical charts are constructed to exacting standards and are designed to promote safe navigation. Since our waterways are subject to continual change, the National Ocean Service encourages chart users to submit corrections or comments for the improvement of this product to the Director, Charting and Geodetic Services (N/CG32), National Ocean Service, NOAA, Rockville, Maryland 20852. By working together, we can make our activities safer and more enjoyable.
Thomas J. Maginnis
Assistant Administrator for Ocean Services
and Coastal Zone Management

This nautical chart was produced by the National Ocean Service's computer-assisted cartographic compilation system.

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO 11 FATHOMS)

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

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SUPPLEMENTAL INFORMATION

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ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated)

AERO (aeronautical)
Al (alternating)
Bk (black)
Bn (beacon)
C (can)
DIA (diaphone)
E (to equal interval (ise))
F (fixed)
Fl (flashing)

Bottom characteristics

Bld (boulders)
bn (broken)
Cy (clay)
Co (coral)
G (gravel)
Grs (grass)
Gy (gray)
h (hard)
M (mud)
Oys (oysters)
rk (rock)
S (sand)
so (soft)
Sh (shells)
sy (sticky)

Miscellaneous

AUTH (authorized)
ED (evidence doubtful)
Obstn (obstruction)
PA (position approximate)
PD (position doubtful)
Reported (not confirmed)
Subm (submerged)

(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

HEIGHTS

Heights in feet above Mean High Water

AUTHORITIES

Hydrography and topography by the National Ocean Service, Charting and Geodetic Services with additional data from the Geological Survey and U.S. Coast Guard.

NOTE X

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LORAN LINEAR INTERPOLATOR

MICROSECONDS

WARNING

The hydrography on this preliminary chart is of varying degrees of quality. In the areas of sparse soundings many of the depths were taken by lead line in the early 1900's, so further uncharted shoals are likely. The depths in the area of dense soundings were acquired by modern survey methods. Soundings that have not yet been checked and verified for accuracy are indicated by a magenta dashed outline. They are advance information subject to office review. Navigators should use this chart with extreme caution and report discrepancies or hazards to the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852.

This preliminary chart is distributed as an interim product while modern surveys are being conducted. Each winter for the next several years a new edition will be published showing the unverified data collected the previous summer. When all surveys are complete a final chart meeting modern nautical charting standards will be published.

LORAN-C

GENERAL EXPLANATION

LORAN-C FREQUENCY 100kHz
PULSE REPETITION INTERVAL
9990 ..... 99,900 Microseconds

STATION TYPE DESIGNATORS (Not individual station letter designations)
M ..... Master
W ..... Secondary
X ..... Secondary
Y ..... Secondary
Z ..... Secondary

EXAMPLE: 9990-Y

RATES ON THIS CHART
9990-Y 9990-Z

Loran-C correction tables published by the Defense Mapping Agency or others should not be used with this chart. The lines of position shown have been adjusted based on theoretically determined celestial signal propagation delays. They have not been verified by comparison with survey data. Every effort has been made to meet the ¼ nautical mile accuracy criteria established by the U.S. Coast Guard. Mariners are cautioned not to rely solely on the lattice in inshore waters.

LORAN LINEAR INTERPOLATOR

MICROSECONDS

KUSKOKWIM BAY
Salmon River
Kinegnak River
Chagvan Bay
mud and sand
mud and sand
SECURITY COVE
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385
Parabolic Antenna
CAPE NEWENHAM
NOKOKO BAY
CAPE PEIRCE
Sledge Island
Foul
A shoal with 2 to 3 fathoms depth is reported extending that west from Cape Peirce. Distance not given.
Foul Area
Foul
Foul
Foul